

Title (en)
Damper device

Title (de)
Dämpfervorrichtung

Title (fr)
Dispositif d'amortisseur

Publication
EP 2796748 B2 20220413 (EN)

Application
EP 14165817 A 20140424

Priority
JP 2013092979 A 20130425

Abstract (en)
[origin: EP2796748A1] A damper device (100) includes: a pair of first plates (10) provided at positions separated from each other in an axial direction of a rotation axis (Ax) and configured to be rotatable integrally with each other around the axis in a state where the first plates intersect the axis; a second plate (20) including a portion positioned between the first plates, having an opening (26), and configured to be rotatable around the axis in a state where the second plate intersects the axis; an elastic member (60) provided between the first and second plates, and elastically deformed at least in a circumferential direction of the axis; and a third plate (30) having a first portion (33) positioned on an inner side of the opening and coupled to the first plates in a state where the first portion is interposed between the first plates from both sides in the axial direction, and a second portion (34) positioned on an outer side of the opening, and configured to be rotatable around the axis in a state where the third plate intersects the axis.

IPC 8 full level
F16F 15/139 (2006.01)

CPC (source: EP US)
F16D 3/12 (2013.01 - US); **F16F 15/1315** (2013.01 - EP); **F16F 15/1395** (2013.01 - EP US); **F16F 15/1397** (2013.01 - EP)

Citation (opposition)
Opponent :

- EP 2765330 A2 20140813 - AISIN SEIKI [JP]
- US 2010243400 A1 20100930 - INOSHITA YOSHITAKA [JP], et al
- US 2003087704 A1 20030508 - TAKEUCHI MAKOTO [JP], et al
- EP 2765331 A2 20140813 - AISIN SEIKI [JP]
- US 2012234642 A1 20120920 - SEKINE TSUTOMU [JP], et al
- EP 2151599 A2 20100210 - AISIN SEIKI [JP]
- GB 2331132 A 19990512 - MANNESMANN SACHS AG [DE]
- US 5352156 A 19941004 - KLEIN PETER [DE], et al
- US 2001007383 A1 20010712 - SCHMID HERBERT [DE]
- FR 2686667 A1 19930730 - VALEO [FR]
- EP 2131063 A2 20091209 - AISIN SEIKI [JP]
- US 5975261 A 19991102 - WOERNER OTTO [DE], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2796748 A1 20141029; EP 2796748 B1 20190102; EP 2796748 B2 20220413; CN 203809595 U 20140903; JP 2014214818 A 20141117; JP 6209850 B2 20171011; US 2014323232 A1 20141030; US 9243670 B2 20160126

DOCDB simple family (application)
EP 14165817 A 20140424; CN 201420204291 U 20140424; JP 2013092979 A 20130425; US 201414261046 A 20140424